

10/572,794

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FILE 'HOME' ENTERED AT 10:49:13 ON 10 DEC 2009

FILE 'REGISTRY' ENTERED AT 10:49:23 ON 10 DEC 2009  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 DEC 2009 HIGHEST RN 1196786-45-4  
DICTIONARY FILE UPDATES: 9 DEC 2009 HIGHEST RN 1196786-45-4

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10572794.str



chain nodes :

chain nodes : 11 18 19 20 24 25 26 27 30 31 32 33 34 37 38 39 40 41 44 45 46

ring nodes :  
 1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17  
 chain bonds :  
 7-11 11-12 18-19 19-20 20-79 24-25 24-26 26-27 30-31 30-32 30-33 33-34  
 37-38 37-41 38-39 39-40 44-45 45-46 45-48 46-47 51-52 51-54 52-53 53-55  
 58-59 59-60 59-62 60-61  
 ring bonds :  
 1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10 12-13 12-17 13-14 14-15  
 15-16 16-17  
 exact/norm bonds :  
 7-11 11-12 18-19 19-20 20-79 24-25 26-27 30-31 30-32 30-33 33-34 37-38  
 37-41 38-39 39-40 44-45 45-48 46-47 51-52 51-54 52-53 53-55 58-59 59-62  
 60-61  
 exact bonds :  
 24-26 45-46 59-60  
 normalized bonds :  
 1-2 1-6 2-3 2-7 3-4 3-10 4-5 5-6 7-8 8-9 9-10 12-13 12-17 13-14 14-15  
 15-16 16-17  
 isolated ring systems :  
 containing 1 : 12 :

G1:[\*1], [\*2], [\*3], [\*4], [\*5], [\*6]

Hydrogen count :  
 9:= exact 1  
 Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS  
 20:Atom 23:Atom 24:CLASS 25:Atom 26:CLASS 27:CLASS 30:CLASS 31:CLASS  
 32:CLASS 33:CLASS 34:Atom 37:CLASS 38:CLASS 39:CLASS 40:Atom 41:CLASS  
 44:CLASS 45:CLASS 46:CLASS 47:Atom 48:CLASS 51:CLASS 52:CLASS 53:CLASS  
 54:CLASS 55:Atom 58:CLASS 59:CLASS 60:CLASS 61:Atom 62:CLASS 79:CLASS  
 Generic attributes :  
 20:  
 Saturation : Saturated  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : Exactly 1  
 Type of Ring System : Monocyclic  
 25:  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : 2 or more  
 Type of Ring System : Monocyclic  
 34:  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : 2 or more  
 Type of Ring System : Monocyclic  
 40:  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : 2 or more  
 Type of Ring System : Monocyclic  
 47:  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : 2 or more  
 Type of Ring System : Monocyclic  
 55:  
 Number of Carbon Atoms : less than 7  
 Number of Hetero Atoms : 2 or more  
 Type of Ring System : Monocyclic  
 61:

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Number of Carbon Atoms : less than 7  
Number of Hetero Atoms : 2 or more  
Type of Ring System : Monocyclic

Element Count :

Node 20: Limited

C,C5  
N,N1

Node 25: Limited

C,C3  
O,O1  
N,N1

Node 34: Limited

C,C3  
O,O1  
N,N1

Node 40: Limited

C,C3  
O,O1  
N,N1

Node 47: Limited

C,C3  
O,O1  
N,N1

Node 55: Limited

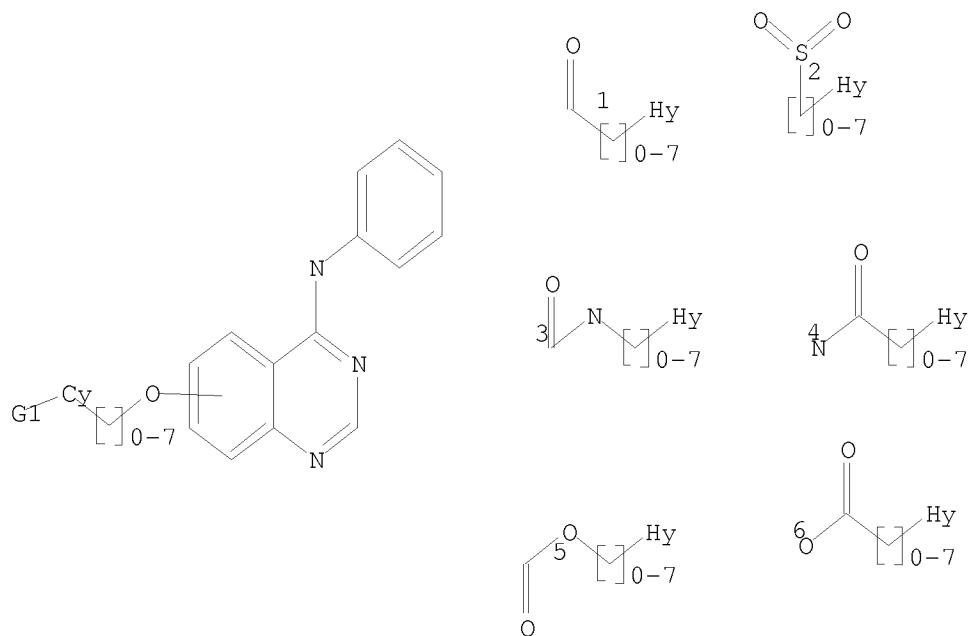
C,C3  
O,O1  
N,N1

Node 61: Limited

C,C3  
O,O1  
N,N1

L1 STRUCTURE UPLOADED

=> d L1  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s L1 full
FULL SEARCH INITIATED 10:49:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 38995 TO ITERATE

100.0% PROCESSED 38995 ITERATIONS
SEARCH TIME: 00.00.02 12 ANSWERS
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L2 12 SEA SSS FUL L1

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	185.88	186.10

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FILE 'CAPLUS' ENTERED AT 10:50:02 ON 10 DEC 2009
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FILE COVERS 1907 - 10 Dec 2009 VOL 151 ISS 24  
 FILE LAST UPDATED: 9 Dec 2009 (20091209/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

Cplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12  
 L3 1 L2

=> d 13 1- ibib abs hitstr  
 YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2005:300441 CAPLUS  
 DOCUMENT NUMBER: 142:355279  
 TITLE: A preparation of quinazoline derivatives, useful for prevention or treatment of tumors sensitive to inhibition of ErbB receptor tyrosine kinases  
 INVENTOR(S): Barlaam, Bernard Christophe; Halsall, Christopher Thomas; Hennequin, Laurent Francois Andre  
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Ltd.  
 SOURCE: PCT Int. Appl., 139 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005030765	A1	20050407	WO 2004-GB4137	20040922
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004276067	A1	20050407	AU 2004-276067	20040922
CA 2540019	A1	20050407	CA 2004-2540019	20040922
EP 1668006	A1	20060614	EP 2004-768680	20040922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004014772	A	20061121	BR 2004-14772	20040922
CN 1882580	A	20061220	CN 2004-80034531	20040922
JP 2007506725	T	20070322	JP 2006-527495	20040922

US 20060287295	A1	20061221	US 2006-572794	20060321
MX 2006003422	A	20060620	MX 2006-3422	20060324
ZA 2006002434	A	20070725	ZA 2006-2434	20060324
ZA 2006002444	A	20070926	ZA 2006-2444	20060324
NO 2006001746	A	20060420	NO 2006-1746	20060420
KR 2006095767	A	20060901	KR 2006-707934	20060424
PRIORITY APPLN. INFO.:			GB 2003-22409	A 20030925
			WO 2004-GB4137	W 20040922

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OTHER SOURCE(S): CASREACT 142:355279; MARPAT 142:355279  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention relates to a preparation of quinazoline derivs. of formula I [wherein: one of R1 or R4 is (un)substituted (cyclo)alkoxy group; R2 is H or alkyl; R3 is Ph with 1 to 5 same or different substituents], useful for prevention or treatment of tumors sensitive to inhibition of ErbB receptor tyrosine kinases (antiproliferative agents). For instance, quinazoline derivative II (inhibition of tyrosine kinase protein phosphorylation: IC50 = 14 nM; EGFR driven KB cell proliferation: IC50 = 16 nM) was prepared via amidation of 2-pyridinecarboxylic acid by piperidine derivative III with a yield of 30%.

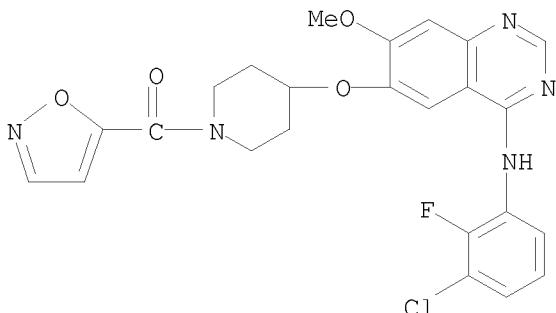
IT 849147-09-7P 849147-11-1P 849147-12-2P  
 849147-13-3P 849147-14-4P 849147-15-5P  
 849147-16-6P 849147-42-8P 849147-43-9P  
 849147-96-2P 849148-12-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinazoline derivs. useful as antiproliferative agents)

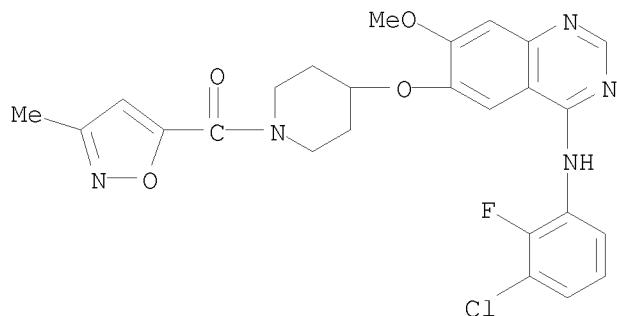
RN 849147-09-7 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy)-1-piperidinyl]-5-isoxazolyl- (CA INDEX NAME)



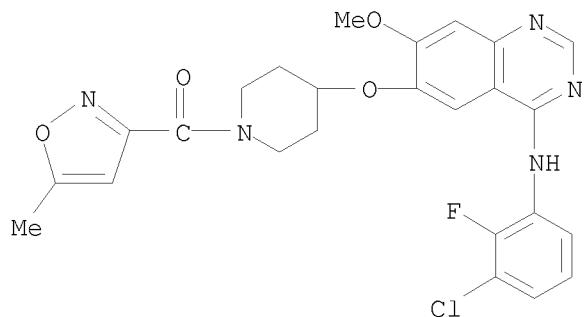
RN 849147-11-1 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl]oxy)-1-piperidinyl](3-methyl-5-isoxazolyl)- (CA INDEX NAME)



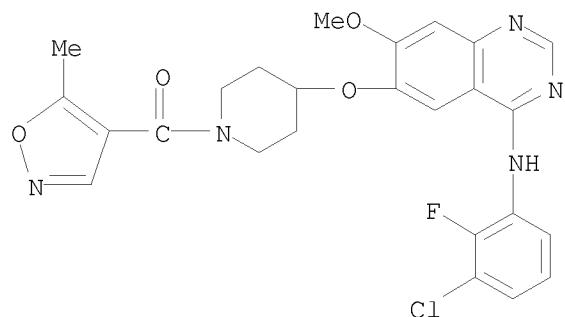
RN 849147-12-2 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-1-piperidinyl](5-methyl-3-isoxazolyl)- (CA INDEX NAME)



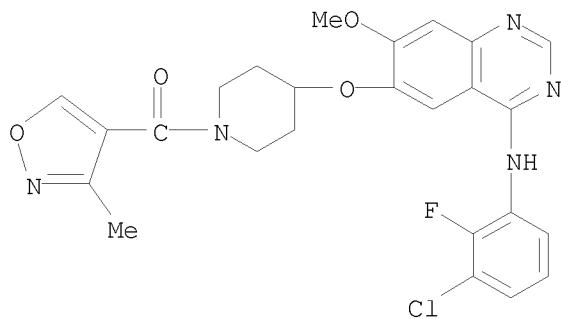
RN 849147-13-3 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-1-piperidinyl](5-methyl-4-isoxazolyl)- (CA INDEX NAME)



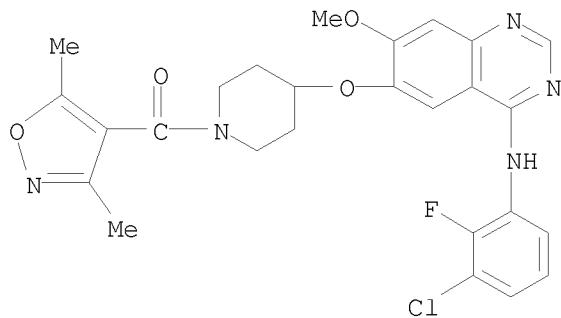
RN 849147-14-4 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-1-piperidinyl](3-methyl-4-isoxazolyl)- (CA INDEX NAME)



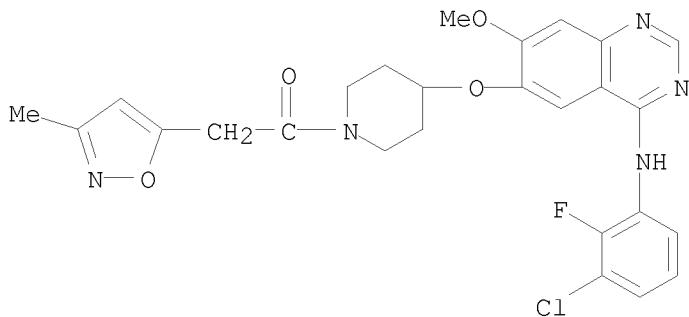
RN 849147-15-5 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-1-piperidinyl](3,5-dimethyl-4-isoxazolyl)- (CA INDEX NAME)



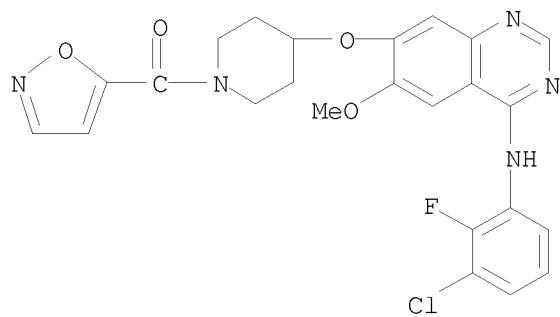
RN 849147-16-6 CAPLUS

CN Ethanone, 1-[4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-1-piperidinyl]-2-(3-methyl-5-isoxazolyl)- (CA INDEX NAME)



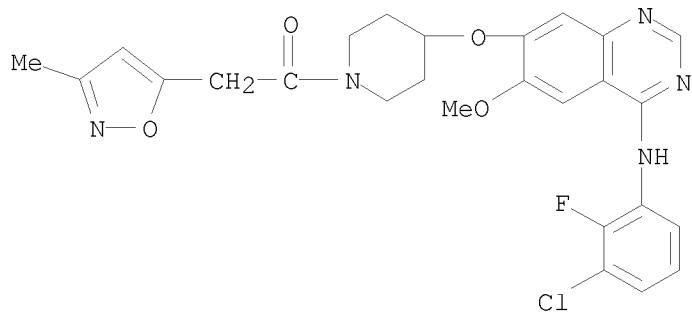
RN 849147-42-8 CAPLUS

CN Methanone, [4-[(4-[(3-chloro-2-fluorophenyl)amino]-6-methoxy-7-quinazolinyl)oxy]-1-piperidinyl]-5-isoxazolyl- (CA INDEX NAME)



RN 849147-43-9 CAPLUS

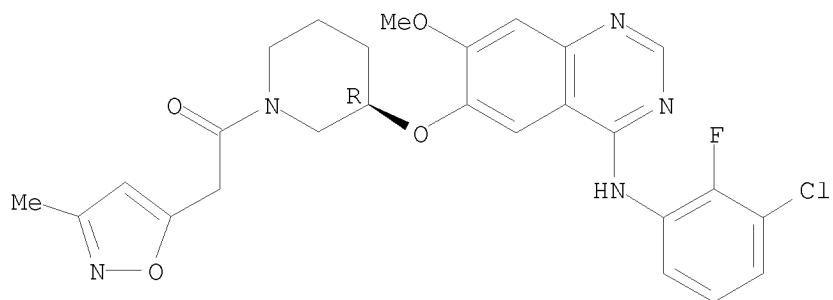
CN Ethanone, 1-[4-[(4-[(3-chloro-2-fluorophenyl)amino]-6-methoxy-7-quinazolinyl)oxy]-1-piperidinyl]-2-(3-methyl-5-isoxazolyl)- (CA INDEX NAME)



RN 849147-96-2 CAPLUS

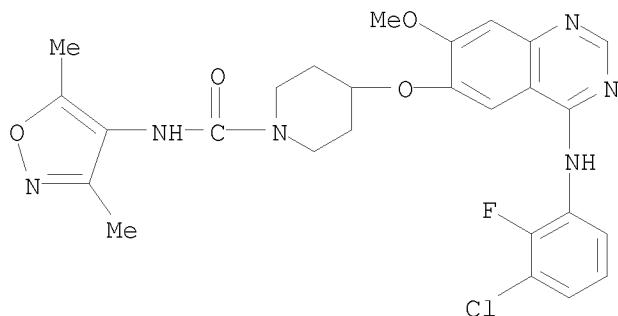
CN Ethanone, 1-[(3R)-3-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-1-piperidinyl]-2-(3-methyl-5-isoxazolyl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 849148-12-5 CAPLUS

CN 1-Piperidinecarboxamide, 4-[(4-[(3-chloro-2-fluorophenyl)amino]-7-methoxy-6-quinazolinyl)oxy]-N-(3,5-dimethyl-4-isoxazolyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (1 CITINGS)  
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 10:49:13 ON 10 DEC 2009)

FILE 'REGISTRY' ENTERED AT 10:49:23 ON 10 DEC 2009

L1 STRUCTURE uploaded  
 L2 12 S L1 FULL

FILE 'CPLUS' ENTERED AT 10:50:02 ON 10 DEC 2009

L3 1 S L2

=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
XXXXXXXXXXXXXXXXXXXX	

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE ENTRY	TOTAL SESSION
-0.82	-0.82

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